P 41

G. R. S. IX-5]

Previous references.

A+9 215-14

1913.

(Gen. Mics)

Later references.

File No. 157-13

Serial Nos. 16, 17, 22-24

GENERAL AND REVENUE SECRETARIAT.

Serial Nos.

Part B for September 1914

SUBJECT.

Proposals for the installation machinery for the manufacture of weights and measures

---

30/9/18

W D 88—GPB—50,000—24-7-16

G.R.S. 11] 1913-14

GENERAL AND REVENUE SECRETARIAT.

(Gen : Mis)

NOTES.

Gen File No. 157 13/14

FILE HEADING.

Weights and Measures.

From

The Chief Engineer of Mysore

No. 2395 Dated 12. 3. 14 Received 16. 3. 14

Diary No. 6648	Enclos. 2	Spare Copies. -	Serial No. 16

BRIEF ABSTRACT OF LETTER.

Forwards for information copy of his letter to the Supt Engineer, Southern Circle, together with copy of its enclosure, requesting him to submit proposals in a trial form with a consolidated estimate for the installation of a complete set of machinery, and further enquires to whether the machinery may not be installed in the Chamarajendra Technical Institute, ~~Bangalore~~ Mysore.

NOTES AND ORDERS.

The enclosure to the above communication is a letter from the Director of Industries and Commerce, to the Chief Engineer, in which the former Offr expresses the opinion that it is contrary to all principles of Govt Administration to carry on a minor industry employing complicated machinery and that the

NOTES—First Sheet.

GPB—35,000—15-6-12

G. R. S. 12]

General and Revenue Secretariat. | Gen File No. 157 of 1913.

Serial No.

6348

manufacture of weights and measures should be left to private enterprise, and that in regard to the method of manufacturing, most of the plant for which estimates were subd by the Exve Engineer are not suitable for working in sheet iron and that a considerably heavier plant is required.

Flag J

2 From the file ~~[illegible]~~ dep is: 3-10-14 last ult it appears that a sum of Rs 7,200/- has been sanctioned for the machinery to be installed in the Central jail, and that till the installation is completed, the Chief Engineer has been requested to have the needful weights and measures supplied by the Exve Engineer, W. S. & Stores Dn to the jail Supdt. It is with reference to this last order, that the Chief Engineer has ~~[illegible]~~ made the present reference.

1- G. 5288-40
2° Gen file 2°. 157-13-15 & 15. 1. 1914
Flag N

3 The Chief Engineer's further communication may be awaited.

The file had been subd to Asst Dep E & A, in addition connection it is ~~[illegible]~~ and subd

Subd
25/3/14

GA 25/3 Inst 2144 It is time that something definite was done in this matter. The Dept has passed some years back and the Rules sometime back. What Standard Wts & Measures in Circulation in the Land becomes Superseded. The Chief Engineer may perhaps be requested to personally move in the matter & see that practical action

NOTE—Contn. sheet.

GPB—60,000—7-11-13

G. R. S. 12]

General and Revenue Secretariat.

Gen File No. 157 of 1913.

Serial No.

1 taken within the next Complex months instead of still keeping the matter under correspondence. The Pol. workshop which is fairly large ought to undertake the work without any trouble

Secy 6.3.14

5 What action has been taken so far in respect of the matter of taking in required machines in the Central Jail

J/4

6 From para 2 of the Chief Engineer's letter under disposal, it appears that Mr Chatterton not having approved of a number of rough estimates ~~obtained~~ based on quotations obtained from several firms, by the Exe Engineer, Water supply & Stores Dn, the Chief Engineer has asked the Superintending Engineer, S. Circle, to closely examine the question in all its aspects and submit proposals in a final form with a consolidated estimate for the installation of a complete set of machinery for the order of Govt.

7 Moreover, as Mr Chatterton is not in favor

NOTE—Contn. sheet.

GPB—60,000—7-11-13

General and Revenue Secretariat.

for File No. 157 of 1913.

Serial No.

Hag S

6648 +

of the installation of the machinery in the Central jail, the Chief Engr has also asked the superintending Engineer to report if the machinery may not be installed in the Chamarajendra Technical Institute, Mysore.

Subd 6/4/14 Secy

Submitted for perusal and order.

As desired in the Chief Engr's proposal from Mr Secy on page 4 of the notes, with the addressed, if approved

1st minutes

6/4

6/4 Secy

I thought that a sufficient number of sets had been procured by Contract. Why shd not the same practice be continued? I see no particular harm in the Jail taking up the work, till we can find private men doing it. The Ch. Engr may be addressed -

13/4/14

NOTE—Contn. sheet.

GPB—60,000—7-11-13

10

By Memo for my dept

2nd Draft

G. R. S. 12]

6648

General and Revenue Secretariat. | G.S. File No. 157 of 1913.

Serial No.

12 Draft ~~sanctioned~~ on the lines directed in para 9 above is subd. They are however at variance with the remarks contained in paras 4 and 8 above.

15/4/14 SA 16/4/14 BR

subd SA 16/4/14 BR

13 Draft subd as directed by the Hble Member so far as orders of Govt are concerned all that was required to be done has been done. It is the delay in getting & installing the necessary plant & machinery that is giving this trouble. Suggested that the Chief Engr may be asked to take a personal interest in the matter & see that something definite is done in this direction & incidentally also suggested that the P.W.D. Workshop should be able to take the work on hand without much trouble. The draft requires approval & other orders.

C Kelly

GS

14 Approved with slight revision Dated 29/4

C Kelly

15 Issued C Kelly

17 To the Chief Engineer No. 8986 dt 6.5.14

With refce to the above, enquires why the practice of proving by contract a sufficient number of sets of weights & measures may not be continued and observes that Govt do not see

NOTE—Contn. sheet.

GPB—60,000—7-11-13

G. R. S. 12]

General and Revenue Secretariat. | Gen File No. 157 of 1913.

1442

Serial No.	
	any particular objection to the manufacture of sets of weights and measures in the Central Jail, Bangalore, until private people come forward to take up the work
22	From the Chief Engineer. No. 7656 d/13. 8-14
	With reference to the above, forwards copy of letter d/4th July 1914, from the Supdg Engineer, S. Circle, together with its enclosure, & requests sanction to Mr V. Rangaswami Iyengar proceeding to Madras to inspect the machinery at the Aluminium Factory at that place as suggested by Mr Chatterton;
	16 With reference to the 2nd portion of 17, ~~the Chief Engineer addresses~~, viz Why the practice of procuring by contract a sufficient number of sets of weights and measures may not be continued, the Chief Engineer says he would furnish a reply as soon as the report called for from the Superintending Engineer is received.
	17 Draft sanctioning Mr V. Rangaswami Iyengar's proceeding to Madras to inspect the Aluminium Factory is subd for approval & other orders.
	9-A bus 17/8/14 Dy Secy
	17/8/14.
	I understand that in the last occasion when Mr Seemma

NOTE—Contn. sheet.

GPB—10,000—13-6-14

G. R. S. 12]

General and Revenue Secretariat. | File No. 157 of 1913.

Serial No.

Iyengar sent to Calcutta to see some machinery he found that there was no such machinery in use.

19. Before granting sanction it seems to be desirable to find out how long Mr. Rangaswamy Iyengar will have to remain at Madras for the cost of the deputation. He should be also asked to send a report embodying the results of his inspection.

1st Member
B
24/8/14

20. Sanction with these conditions.

5/9/14 Dun. 7/9

21.

Draft subd
SA bus
8.9.14

22. Draft may be appd.

Dyscey
Mon
9.9

23.

1st Member
Dewan

B
9/9/14
Mon
9.9

NOTE—Contn. sheet.

GPB—10,000—13-6-14

1442

(8)

G. R. S. 12]

General and Revenue Secretariat. | Fur File No. 157 of 1913.

Serial No.

(21) Draft approved by 1st Member. MRV. 10.9.14.

Draw 11/9

Dewan 11.9.14

1553 12-9-14

(22) Draft approved by the Dewan 17.10.14

Fus

Draw 21/10

(23) 21/10 Mem 21.10

23 To the Chief Engr & Comptr No C 3783-4 dt 22.10.14.

Accords sanction to Mr V. Rangaswami Iyengar proceeding to Madras for inspecting the Aluminium factory there, & requests the Chief Engineer to report when Mr R. Iyengar proposes to start for Madras, how long he will be engaged there & what the estimated cost of his deputation will be & that a report embodying the results of his inspection should be subd to Govt as early as possible after his return to Bangalore

Fus

24 From the Chief Engr No 11770 dt 17.12.14

With refce to the above, forwards copy of Mr V. Rangaswami Iyengar's letter No 9152 dt 5-12-14 furnishing the particulars called for and stating that the results of his inspection will be subd after the latter's return to Bangalore.

NOTE—Contn. sheet.

5075

9

G. R. S. 12]

General and Revenue Secretariat. | GM File No. 157 of 1913.

Serial No.

(27) According to Mr. V. Rangaswami Iyengar's report he was to have left Bangalore on the 10th Dec. and returned by the 14th Dec., after making a stay of 3 days at Madras for the inspection of the Aluminium Factory there, and that the cost of his deputation would amount to Rs. 101-12-0.

(28) The report promised may be awaited.

Subd. (29) Yes. Mon
GK. hrs
20.12.14 29-12-

(30) Subd. The report promised above has not yet been received. Hence a draft reminder is put up.

NSt issued as a reply has since been received.

GK. 23.3. VS Issue. (31) Mon 23/3.

From
The Chief Engineer no. 2766 S 20.3.15
Forwards a copy of the report of Mr. Ranga Sami Iyengar on the results of his inspection of the Aluminium Factory at Madras.

(32) Mr. Ranga Sami Iyengar promises to submit a complete report with more reliable data after getting certain information from English firms on the set of measures now made.

Subd. (33)
KN. hrs
27.3.15 The further report promised may be awaited.

Dy Secy) Mon 29/3

NOTE—Contn. sheet.

GPB—10.000—13-6-14

G. R. S. 12]

(b)

General and Revenue Secretariat. | G.M. File No. 157 of 191 3-14.

Serial No.

(38)

A time may I think be fixed within which the Ch Engr may be requested to obtain a complete scheme. I would suggest the end of May - the matter has already been pending for a long time and the merchants have obtained no relief in spite of their repeated complaints regarding the insufficiency of the weights and measures kept in stock. Mr. Rangaswami Iyengar appears proposes to expand the working of the factory into the manufacture of other articles so as to allow of the cream being purchased at a profit. He should be asked to give complete information regarding initial & recurring expenses the net results which may be expected.

(35) Forwarded with compliments to the Secretary P & A for favour of

NOTE—Contn. sheet.

GPB—25,000—2-11-14

E&A
Mis. 186-14

5075

(1)

G. R. S. 12]

General and Revenue Secretariat. | Gen File No. 157 of 1913.

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suggestions and remarks. The subject is one in which his dept is primarily concerned and if there is no objection the papers will be transferred to Br VI for further action.

Pethick Brown
30.3.15
Dy Secretary
Asst
30.3.

(36) As the proper administration of the weights and measures Regulation is of vital importance to trade, it will be convenient if all further correspondence on this subject ~~will be~~ is dealt with in Branch VI. This file may be transferred to Branch VI.

~~Br VI may deal with all~~

~~Sections~~

Dy Secy
CSS
26/4/15

(37) Transferred to Br VI

By
26/4/15
Asst
26/4

DR

(38) The I. G. of Prisons has been asked, in another file, to send up a report on the working of the

NOTE—Contn. sheet.

GPB—25,000—2-11-14

G. R. S. 12]

General and Revenue Secretariat.

G. M. File No. 157 of 1913-14

Serial No.

~~Mr~~ Weights & Measures Regln
Its receipt may be awaited.

(39) It was at the instance of the Dir of I & C that Mr V. Rangaswamy Iyengar was deputed to Madras. The file may be sent unofficially to the Dir for favour of furnishing his opinion on the report and the contemplated expansion of the proposed factory referred to in paragraph 14 of the Report

SM 1-5-15

If approved, this file will be sent to the Dir I & C for favour of opinion & proposals if any, after the report from the D. G. of Prisons is recd

Sec 4

Yes.

I visited the jail yesterday & saw what is being done there.

A fairly large stock of weights & measures has been supplied by the Contractor & I was told that further supply was stopped. Some measures are being

NOTE—Contn. sheet.

GPB—25,000—2-11-14

Serial No.

Made in the jail itself. A large number of measures are being made by local metal shops next to the jail for being tested & stamped.

The process of testing is carefully done & I do not think that ~~there is room for any appreciable difference between one measure & another~~ measures differing appreciably from the standard are passed in the test.

The arrangements for stamping are not very good & leave a good deal of scope for fraudulent manipulation after the measure is passed out of the jail. Several of the measures are made out of zinc sheeting with 2 brass bands riveted at the top & bottom. The seal is impressed on the top brass band. It is possible to remove the band, reduce the height of the vessel & put on the band again or easier still to cut off a portion from the bottom. I understand that in Madras bands are not allowed & that the stamp is also impressed in three places — on the top edge, the bottom edge & on the seam. A similar arrangement is necessary here also.

NOTE—Contn. sheet.

GPB—25,000—2-11-14

General and Revenue Secretariat. | File No. | of 191 .

Serial No.

It would be a good thing if the measures could be pressed & moulded out of a single sheet, but this can only be done with proper machinery.

The arrangements in regard to weights are unsatisfactory in that weights of 5 seers, 1/4 md are not available. This want can be easily supplied.

Present arrangements for destroying rejected short weights are not satisfactory. They should be melted or cut up before they are by a responsible official & not be allowed to get into use surreptitiously.

Further action may be taken on receipt of the I.G.P's report.

Please remind him from time to time.

Linked with the general file No. W15 & Measures.

CSS 8/5/15

Mr. 8/5

No. 951.

Letter No. 111 86 dt 8th Nov 1916 from the Collr recommending for reasons given that the proposal to instal machinery in the jail may be drop-

NOTE—Contn. sheet.

GPB—95,000—2-11-14

G. R. S. 12]

General and Revenue Secretariat.

G. R. File No. 157 of 1913-14

Serial No.

This was one of the files put up with the general file regarding Wts and measures.

The issue of orders on the general question may be awaited

20/12/16

20/12/16

As the need for accurate weights and measures is keenly felt by the people, the question of manufacturing them cannot be dropped. Private persons cannot be expected to undertake the work without any fair idea of the cost of the machinery required and the kind of skilled labour necessary to manage the business, and the probable output. If the details are worked out and a complete scheme presented to the public, local capitalists may be encouraged to take up the work.- The Dir of Ind & the Ch Insp may be requested to investigate the question and prepare a complete estimate Secy)

Mr D R.

21/11

Please wait until the proposals of the Ch of Commerce are received

for 21/11

23/11

The other file referred to has been today with the Chamber's views.

15/1 2/16. 15/12

15/1/17

P.M. 16-12-16

NOTE—Contn. sheet.

GPS—2000—2-11-14

G. R. S. 12]

General and Revenue Secretariat. File No. 1 of 1913

Serial No.	
	May the issue of orders on the Mai file be awaited for further action in regard to the file.
	18/12/16

Mr DK

Sec'y

I Cmte Sec.

D. M. 18.12.16

W/c — D. M. 22.12.16

NOTE—Contn. sheet.

GPB—70,000—17-12-15

G.R.S. III—3]

Routine Notes.

[To be used only for notes, requisitions, etc., not intended for permanent record.]

D: 15-9-9

No. 4372 of 10th Sept. 917 from the D. G. of Prisons stating that his Deptt. has now been relieved from supplying weights and measures etc.

Submd. there papers may perhaps be filed.

mw 13/9 13/9 D.M. 14/9

14/9

N.B.—Should routine notes be written on small slips, the notes must be copied, or slips pasted on this form.

W.D. 84—GPB—60,000—20-7-16

Mysore Public Works Department,

No. 2394 Central Office,

Bangalore, Dated 12th March 1914.

From

The Chief Engineer of Mysore,

B A N G A L O R E.

To

The Superintending Engineer,

Southern Circle, BANGALORE.

Sir,

With reference to your letter No.482 dated the 23rd January 1914 regarding the installation of machinery for the manufacture of weights and measures for which an estimate amounting to Rs.7,200 has been sanctioned in G.O.No.J.1287-9/Legis.3-10 dated the 27th October 1911, I have the honour to forward herewith copy of letter No.1582 dated the 24th February 1914 from the Director of Industries and Commerce, together with its enclosures in original.

2. The Executive Engineer, Water Supply and Stores Division sends a number of rough estimates based on the quotations obtained from several firms. Mr.Chatterton does not approve of any of these estimates. You are requested to closely examine the question in all its aspects and submit proposals in a final form with a consolidated estimate for the installation of a complete set of machinery for the order of Government.

3. It should be reported whether the machinery may not be installed in the Chamarajendra Technical Institute at Mysore where it is now proposed to extend operations to a considerable extent and where the 1000 sets of measures immediately required are to be manufactured as arranged by you with the Superintendent of the Institute.

4. The matter requires prompt settlement as the commercial community clamour for standard weights and measures. You will

therefore be so good as to give your immediate attention to the matter.

DIARY No. 6648

1913-1914
SECTION gen: mis
FILE No. 157 of 1913-14
Item No. 16

I have the honour to be,

S i r,

Your most obedient servant,

Sd.K.Krishnaiengar,

Offg: Chief Engineer of Mysore.

No. 2395 Bangalore, Dated the 12th March 1914.

E. Copy (with copy of letter from the Director of Industries and Commerce) is forwarded, with compliments, to the Secretary to Government, General and Revenue Departments, for information, with reference to correspondence ending with G.O.No.G.5288-90/G.M. 157-13-15 dated the 15th January 1914.

Offg: Chief Engineer of Mysore.

V.S.P.

Letter No.1582 dated the 24th February 1914, from the Director of Industries and Commerce in Mysore, to the Chief Engineer of Mysore, Bangalore.

&&&&&&&&&&&&&&

In reference to your No.1674 dated the 16th February 1914, I have the honour to state that the question referred to me by Government in the Secretary's letter of the 15th November 1913 has occupied my attention, and the only definite conclusion I have so far come to is that the last place in which Government should undertake the manufacture of weights and measures is the Central Jail. Apparently at the present time, the Superintendent of the Central Jail acts as a Commercial Agent for the sale of such - - - weights and measures as are supplied to him by the Executive Engineer of the Water Supply and Stores Division. Neither the Superintendent of the Central Jail nor any of his Staff have any technical knowledge of the business, and it seems to me contrary to all principles of Jail Administration that a minor industry employing complicated machinery should be introduced into it. If the Jail Authorities are in need of extra industrial for their prisoners, they might follow the example of the Penitentiary in Madras, and introduce type setting and printing. Personally, I am of opinion that the manufacture of weights and measures should, if possible, be undertaken by private enterprise, and that Government should simply confine itself to stamping the same when they are made. There are some vague proposals to start a company to work in metals in Bangalore, but the promoters are rather shy, and nothing definite has yet been done. I have been postponing detailed consideration of the matter in the hope that this company will be started, and that we could enter into some contract with them to supply weights and measures of suitable size and quality. For the present, however, this seems to be in abeyance, and if any new arrangements are made to improve the supply of weights and measures, it should be done in the Water Supply Division Workshops.

In regard to the method of manufacturing weights and

and measures, I should like to point out that none of the estimates submitted are in my opinion adequate. I have had considerable experience with metal drawing, and I am quite convinced that the process is unsuitable for the manufacture of weights and measures on a small scale such as is necessary in Mysore. It would appear that most of the plants for which estimates have been submitted are suitable for brass measures; but it will require a considerably heavier plant for working in sheet iron. As the Executive Engineer, Water Supply Division, is quite competent to deal with this matter, I need not go into details.

I have had some correspondence with the Bangalore Commercial Association, which complains that its members are unable to obtain multiples as well as sub multiples of the actual units of weight and measure. In this matter I think they have a distinct grievance, and that when the proposals are finally worked out, arrangements should be made to supply multiples of the standards. For instance, there is a considerable demand for two maund, one maund, and half maund weights; and similarly, for ten seer and five seer measures of capacity.

I return herewith the papers sent to me from the Water Supply Division.

&@&@&@&@&@&@&@&

"TRUE COPY"

Assistant Secretary,

Public Works Secretariat

V,S.P.

Sws 128

G. R. S. 26]

115

X

Sw File No. 157-13

Serial No. 17

Diary No. of letter replied to 6648

No. G 89 36

General and Revenue Secretariat

( )

, the 191 .

To

The Chief Engineer of Mysore

Sir,

Date of issue 6/5/14

Signed by Sd T. L. D. Rao

Paper under disposal

With reference to your memo No. 2395 dated the 12th March 1914, forwarding copies of your letter of the same date to the Superintending Engineer, Southern Circle, and also letter dated the 24th Feb^y 1914, from the Director of Industries & Commerce addressed to you, re weights and measures, I am directed to enquire why the practice of procuring by contract a sufficient number of sets of weights and measures ~~which was like now~~

over.

SUBJECT.

~~in force~~ may not be continued.

2. I am however to observe that Govt do not see any particular objection to the manufacture of sets of weights and measures in the Central Jail, Bangalore, ~~sold~~ public people ~~master~~ come forward to take up the work.

I have &c,

Dear 29/4
My Secretary.

Subd
Sanction has already been accorded to the installation of machinery for the manufacture of weights and measures in the Central Jail - Vide G.O. No. J. 1287-9 dated 27-10-19 -
Leg 3-10-14
Fin 9-

List of enclosures.

Copied by

Examined by

GPB—25,000—4-3-13

No. 7656.

MYSORE P. W. DEPARTMENT,

CENTRAL OFFICE.

Bangalore, 13th August *191* 4.

From

KARPUR SHRINIVASRAV, ESQ., B.Sc., L.C.E.,

Offg. Chief Engineer of Mysore,

Bangalore.

DIARY No. 1442
1914-1915
SECTION Gen: Mis
FILE No. 157 of 1913-14
SERIAL No. 22

To

D.M.Narasinga Rao, Esq., B.A.,B.L.,

Offg. Secretary to the Government of

His Highness the Maharaja of Mysore,

General and Revenue Departments.

Sir,

With reference to correspondence ending with your reminder No. G.513 dated the 17th July 1914 regarding the installation of machinery for the manufacture of weights and measures, I have the honour to forward herewith a copy of letter No. 121/Camp dated the 11th July 1914 from the Superintending Engineer, Southern Circle, together with that of its enclosure, and to request that you will be so good as to obtain the sanction of Government to Mr.V.Rangasawmy Iyengar proceeding to - - Madras to inspect the machinery at the Aluminium Factory at that place, as suggested by Mr.Chatterton.

2. A reply to the question as to why the practice of procuring by contract a sufficient number of sets of weights and measures may not be continued will be furnished as soon as a report called for from the Superintending Engineer on the subject is received.

I have the honour to be,

Sir,

Your most obedient servant,

H. Thimmaiengar

For Offg. Chief Engineer of Mysore.

S.S.

191 .

MYSORE P. W. DEPARTMENT.

No. 7656.

From

THE CHIEF ENGINEER OF MYSORE,
Bangalore.

To

The Secretary to Government
General & Revenue Depts
Bangalore

Dated Bangalore 13. 8. 1914

Despatched

Enclosure No. Two.

SUBJECT.

Re: the installation
of the machinery for
the manufacture of
weights and measures.

GPB—2,000—4-413

Letter No. 121/Camp dated the 14th July 1914 from the - - - Superintending Engineer, Southern Circle, to the Chief Engineer of - - - Mysore, Bangalore.

In continuation of my No. 4756 dated the 30th June 1914 in connection with the installation of the machinery in the Bangalore - -- Central Jail for the manufacture of weights and measures, I have the - - honour to submit herewith copy of Mr.Chatterton's letter No. 25 of 2nd instant on the subject.

I would request the favour of your granting me permission for my going to Madras to inspect the Machinery at the Aluminium Factory in Madras as suggested by Mr.Chatterton.

Letter No. 25 dated the 2nd July 1914 from Alfred Chatterton,Esq Director of Industries and Commerce in Mysore to the Superintending Engineer, Southern Circle, Bangalore.

With reference to your No. 4755 of the 30th June 1914, I have the honour to suggest that you should make up a sample set of the measures you require in the gauge of the metal which is most suitable and that you should send them to England to one of the large firms who deal with the manufacture of drawing presses for metal plate work. The best firm is Messrs Taylor and Challen, Birmingham. They will supply you with complete estimates for a metal working plant which should include a drawing press, a spinning lathe, and the necessary trimming and finishing tools. It will be necessary also to provide an annealing furnace. I would strongly advise you to get estimates for turning out soiled-drawn measures, as I think they will prove much more satisfactory than measures which have to be brazed together. The initial cost of the plant will no doubt be considerably - - greater, but it can be used for a great variety of purposes besides measures for which it is primarily intended. If you want to see machinery of this

kind, there is a lot of it in the Indian Aluminium Co's Works in Madras, and I can, if necessary, give you an introduction whereby you can inspect the same. I certainly think it will be worth your while to see this plant before you send up any final proposals to - - Government. In regard to the manufacture of weights, they will all have to be cast and a simple moulding machine is really all you want. After the weights are cast, the base can be turned smooth and the exact weight obtained by drilling a small hole in the base.

"C O P I E S"

Assistant Secretary to Government,

Public Works Department.

S.S.

Sus 43

G.R.S. 28]

Gm File No. 157-13

Serial No. 23.

Diary No. of letter replied to 1442

Proceedings of the Government of His Highness the Maharaja of Mysore.

GENERAL AND REVENUE SECRETARIAT.

( )

Paper under disposal

, *the* 19

Date of issue 22. 10. 14

Signed by for Hy. S. R. Rao.

READ—

Corre ending with letter No. 7656 dated the 13th August 1914, from the Chief Engineer of Mysore, soliciting sanction to Mr. V. Rangaswami Iyengar, Superintending Engineer, Southern Circle, proceeding to Madras to inspect the machinery at the Aluminium Factory at that place, as suggested by Mr. Alfred Chatterton, C.I.E., in connection with the installation

~~ORDER THEREON.—~~ No.

over.

SUBJECT.

GPB—10,000-29-9-10

of a plant in the Central Jail, Bangalore, sanctioned in G.O. No. J. 1287-9 dated the 27th October 1911, for the manufacture of Weights and Measures. Legis. 3-10-14

Flag J

Order thereon :- No. G 3783-4 dt 22. 10. 14

Govt are pleased to accord sanction to Mr. V. Rangaswami Iyengar proceeding to Madras for the purpose referred to in the letter read above.

2. The Chief Engineer is requested to report when Mr Rangaswami Iyengar proposes to start for Madras, how long he will be employed to remain there and what the estimated cost of his deputation would be.

3. After his return to Bangalore, a report embodying the results of his inspection should be obtained and submitted to Govt as early as possible.

10/9/14

9.9.14 For the Secretary

9/9/14 Bms

To The Chief Engineer of Mysore.

" Comptroller, Mysore Govt

17.10.14

No. 1770

MYSORE P. W. DEPARTMENT,

CENTRAL OFFICE.

Bangalore,....15th...December.....*1914*.

DIARY No...5075....

From

KARPUR SHRINIVASRAV, ESQ., B.Sc., L.C.E., 1914-1915

Offg. Chief Engineer of Mysore,

No. 157-13 *Bangalore.*

24

To

D.M.Narasinga Rao, Esquire, B.A., B.L.,

Offg. Secretary to the Government of Mysore,

General and Revenue Departments, Bangalore.

Sir,

Adverting to Government Proceedings No.G.3783-4/G.M. 157-13-23 dated the 22nd October 1914, according sanction to Mr.V.Rangaswamy Iyengar proceeding to Madras for inspecting the Machinery at the Aluminium Factory at that place in connection with the installation of a plant in the Bangalore Central Jail for the manufacture of weights and measures,I have the honour to forward herewith, for the information of Government, a copy of Mr.Rangaswamy Iyengar's letter No. 9152 dated the 5th December 1914, furnishing some of the particulars called for by them.

2. A report embodying the results of inspection will be submitted to Government after Mr.Rangaswamy Iyengar returns to Bangalore.

I have the honour to be,
Sir,
Your most obedient servant,

H. Thimmaiya

For Offg.Chief Engineer,

Mysore P.W.Department.

MYSORE P. W. DEPARTMENT.

No.

From

THE CHIEF ENGINEER OF MYSORE,
Bangalore.

To

Dated Bangalore

Despatched

Enclosure No.

SUBJECT.

GPB—2,000—1-415

Letter No.9152 dated the 5th December 1914 from the Superintending Engineer, Southern Circle, to the Chief Engineer of Mysore.

With reference to your No.10002 dated the 4th ultimo, forwarding copy of Government order No.G.3783-4/G.M.157-13-23 dated the 22nd October 1914, according sanction to my proceeding to Madras to inspect the Machinery at the Aluminium Factory at that place in connection with the installation of a plant in the Central Jail, Bangalore, for the manufacture of weights and measures and requesting to report when I propose to start, how long I will be engaged there and what the estimated cost of my deputation would be, I have the honour to inform you that I intend leaving Bangalore on the 10th instant, and re-returning back on the 14th idem.

2. As regards the estimated cost of my deputation, I beg to state that the amount of my travelling allowance as per Mysore Service Regulations would be about Rs 101-12-0 as detailed below:-

		Rs	as	ps
10th.	Double 1st. class Railway fare from Bangalore to Madras	41	-2-	0
11th. to 13th.	3 days' halt at Madras at Rs 6 per day	18-	0-	0
14th.	Double 1st class Railway fare from Madras to Bangalore	41-	2-	0
	Office to Station and back 3 miles at Re 0-8-0	1-	8-	0
	Total	101-	12-	0

"True Copy"

Assistant Secretary,
Public Works Secretariat.

V.N.S.

TELEGRAPHIC ADDRESS : *Statewoks.*

No. 2766 Gel.

MYSORE P. W. DEPARTMENT.

CENTRAL OFFICE,

Bangalore, 20th March 1915.

From

KARPUR SHRINIVASRAO, ESQ., B.SC., L.C.E.,

Chief Engineer of Mysore,

Bangalore.

DIARY No. 8801
10 -14
SECTION
FILE No.
SERIAL No.

To

D.M. Narasinga Row, Esq., B.A., B.L.,

Offg: Secretary to Government,

General and Revenue Departments,

Bangalore.

Sir,

With reference to correspondence ending with this office letter No.11770 dated the 17th December 1914, regarding the installation of a plant in the Bangalore Central Jail for the manufacture of weights and measures, I have the honor to forward herewith a copy of letter No.1575 dated the 2nd March 1915, from the Superintending Engineer, Southern Circle, in which he has reported on the results of his inspection of the Aluminimum Factory at Madras.

2. Mr. Rangaswamy Iyengar has been requested to develop the scheme further, as proposed in the last para of his letter. The scheme appears so far to be a promising one.

I have the honour to be,

Sir,

Your most obedient servant,

H.R.R.

For Chief Engineer of Mysore.

GPB—5,000—16-1-15

MYSORE P. W. DEPARTMENT.

No.

From

THE CHIEF ENGINEER OF MYSORE,

Bangalore.

To

Dated, Bangalore

Despatched

Enclosure No.

SUBJECT.

Letter No.1575 dated the 2nd March 1915, from the Superintending Engineer, Southern Circle, Bangalore, to the Chief Engineer of Mysore Bangalore.

Adverting to para 3 of the Government Proceedings No.G.3783-4/G.M.157-13-23 dated the 22nd October 1914, calling for a report embodying the results of my inspection of the Aluminium Factory at Madras, I have the honor to inform you that I left Bangalore, on the night of the 9th December 1914, and reached Madras on the 10th idem. I saw Mr. Hawkins at his office and gave the letter of introduction kindly given me by Mr. Chatterton, C.I.E., Thereupon I was introduced to the Superintendent of the Factory, Mr. -- Rangachary, who took me round.

II. I visited the Factory once on the 10th December 1914, and -- again on the 12th idem.

III. The Factory is situated in Triplicane in a spacious building with the necessary accommodation for work-shops, offices, store and show rooms.

IV. The Company manufacture all kinds of articles in aluminium, army requisities forming a large bulk of its production. At the time of my visit the manufacture of a large number of army water bottles and small "Chamboos" was in full swing.

V. The various machines are driven by Electric Motors, the current, for which is supplied by Generators direct coupled to Gas Engines worked by producer gas. This arrangement is reported to be very economical and the Superintendent informed me that his current per unit costs him less than what the Electric Supply ---- Corporation charge at present.

VI. The operation of manufacturing aluminium vessels may be --- classed under the following heads:--

1. Cutting blanks from rolled sheets.
2. Pressing and drawing such blanks into other shapes. In some

cases, these shapes may be final and in others only preliminary to spinning.

3. Annealing.

4. Spinning and Trimming.

5. Polishing and pickling.

VII. A detailed description of these various processes will, I think, prove tedious besides having no connection with the object in view, viz., manufacture of seamless measures in steel and iron. But a visit to the Factory is instructive as demonstrating the -- application of labour-saving machinery, enabling rapid and cheap -- production and also the fact that indigenous labour can, if properly handled, be trained to attain a high degree of efficiency. It may also be interesting to know that the factory is run entirely by locally trained men including the Superintendent and that - the quality of the work turned out compares very favourably with any high class European production.

VIII. Now to the question of manufacturing measures locally. These measures can be manufactured in 2 ways:--

1. Out of ordinary iron sheets bent and riveted to the required form.

2. Out of one piece of steel pressed to the required shape by suitable machinery.

IX. As regards the first method, no elaborate machinery is required and the estimate for the necessary appliances already submitted by Mr. Sreenivasa Iyengar will answer the purpose. Of course, the -- measures so turned out, appear rather crude. But it is a point for consideration if the public wish for a better article.

X. It was however suggested by Mr. Chatterton that seamless ---- solid drawn measures will be a great improvement and that if the requisite machinery be got for the manufacture of such measures, the same machines can be used for the manufacture of various other articles in aluminium, brass and copper. In this way we will be forming the nucleus of a metal working factory which may be developed and handed over to private enterprise later on. The inspection

of the factory at Madras has convinced me that we can find in Bangalore full scope for such a concern and that it could be made to serve as an object lesson to the local artizans and capitalists.

XI. Besides the manufacture of these measures, all sorts of articles in aluminium, brass, nickel and other metals can be stamped or spun and as we proceed, there is no doubt that the scope will be considerably enlarged both in number and in variety. But it will be advisable to begin in a modest scale and enlarge the works gradually as we discover profitable lines for development. There is no doubt that solid drawn seamless measures will be far in advance of the measures now manufactured and supplied, but they would be somewhat costlier as the metal used in their construction must be of a fairly superior quality to stand pressing and drawing.

XII. As regards the cost per set an accurate estimate cannot be given at this stage for the following reasons:--

XIII. In the first instance, the shapes of the different standards are such that they will require probably 4 to 5 operations before they can be brought to their final shape. Preliminary trials are necessary to determine this. It is also possible that one or two annealing processes may be necessary between the first and the last process. The minimum thickness of the metal and its quality also needs to be determined. The experience gained in the shaping -- of aluminium vessels is not applicable to vessels to be made of steel. In fact, the nature of the metal, the shape of the vessels and the thickness of the material are the ruling factors and each case requires individual consideration. However, with the help of Mr. Chatterton, I have been able to prepare an approximate estimate for a plant capable of turning out about 100 sets per day, (please see Appendix A attached). I don't consider that a plant of this kind can be made to work economically if operated on a -- smaller scale. This would, of course, mean that the plant could not be employed in turning out measures only throughout the year and that other lines of manufacture must also be found to keep -- the plant busy. At present we are able to put on the market a -

a set made of galvanized iron, rolled, pinned and soldered with the brass bands for Rs.1-4-0 per set (each set consisting of 1, ½, ¼, and ⅛ seers measures). I had one of these sets weighed and it came to 1.5 lbs. If we have to use mild steel, I estimate that the cost of the material alone may come to four annas. The cost of pressing, drawing and finishing cannot be less than 4 as. Mr. Chatterton estimates that supervision, power, etc., will cost another 4 as. per set. Adding 8 as. for other charges, viz., interest on capital, profit and depreciation, the gross selling price per set will in all probability come to Rs.1-4-0 or the same as the present ones.

XIV. I propose forwarding a set of the measures now made to one or two firms in England and ask them to report on the same. They will be able to advise us as to the minimum thickness of metal, quality of steel and the number of operations in which each could be finished. They will also be asked to quote for a set of the requisite machinery. On receipt of this information, I hope to be able to submit a complete report with more reliable data. I would also like to install the requisite machinery for the manufacture of house and furniture fittings in brass and iron with a view to keeping the factory busy throughout the year, when we are not turning out steel measures.. But we may take this up later on.

H.R.R.

"One copy"

TELEGRAPHIC ADDRESS: *Statewoks.*

No. 11186

10 NOV 1916

MYSORE P. W. DEPARTMENT.

CENTRAL OFFICE,

Bangalore 8 November 1916.

From Rajasabhabhushana

KARPUR SHRINIVASRAO, ESQ., B.SC., L.C.E.,

Chief Engineer of Mysore,

Bangalore.

No. 2348

10-10

SECTION

FILE No.

SERIAL No.

To

D. M. Narasinga Rao, Esq., B.A., B.L.,

Secretary to the Government of Mysore,

General Department, B a n g a l o r e.

Sir,

Adverting to para 2 of your letter No. 8936/G.M.157-13-17 dated the 6th May 1914 and subsequent correspondence ending with this office No. 2766 dated the 20th March 1915, regarding the installation of a machinery in the Central Jail, Bangalore, for the manufacture of weights and measures, I have the honour to inform you that the Superintending Engineer Southern Circle, reports that the particulars called for from certain firms in - - - England have not been received and it is not possible to get any information till the war ceases.

2. The Superintending Engineer further states that the weights and measures cannot be manufactured in the Jail as the process demands much technical knowledge of a higher order which cannot be found inside a Jail. Besides the demand for these articles may not warrant the laying down of a machinery for their manufacture unless we are sure of being able to manufacture them in tens of thousands every month.

3. In these circumstances, the proposal to instal a machinery in the Jail may be dropped for the present. It is

GPB—5,000—16-1-15

191

MYSORE P. W. DEPARTMENT.

No.

From

THE CHIEF ENGINEER OF MYSORE,

Bangalore.

To

Dated Bangalore

Despatched

Enclosure No.

SUBJECT.

is found to be possible to meet the supply of weights and measures required by the market by getting from contractors as is being done now.

I have the honour to be,

S i r,

Your most obedient servant,

R V Sundaramma

Chief Engineer of Mysore.

J.R.

OFFICE OF THE SUPERINTENDENT OF GOVERNMENT PRINTING
REGD. NO. 1436
SUNS IN MYSORE BANGALORE

C.R.S. 46]

GOVERNMENT OF HIS HIGHNESS THE MAHARAJA OF MYSORE.

GENERAL AND REVENUE SECRETARIAT.

No. 2659, dated the 8-9-1917.

(A & E.)

To

The Inspector General of Prisons.

SUBJECT.

Calling for an estimate showing the initial & recurring cost involved in manufacturing weights & measures in the jail.

SIR,

I am directed to invite attention to the marginally noted communication and to request that the Government of His Highness the Maharaja may be informed, in the column opposite, of the cause of delay in furnishing a reply and of the approximate date on which reply may be expected.

*No. 583 dated 13/4/16 A-1930-15-31

I am also to request that the reply to this reminder may be sent ~~not later than the~~ very early

I have, etc.

for Secy. to G.A.

* Previous reminders.

Submitted.

Maybe replied

MGCPB—10,000—24-2-05.

DIARY No. 19-10
N. & REV. SEC.
REPLY No.
11 SEP 1917
JUDICIAL No.

No. 1472, dated the 10/11 Sept 1917

78-07

To

The Secretary to the Government of H. H. the Maharaja of Mysore, General and Revenue Dept.

Sir,

In reply, I have the honor to invite your kind reference to my letter No. 144 78-07 dated 24-1-17, wherein I have reported that, until the requisite machinery &c, are procured, it is not possible to submit an -- estimate for manufacturing weights and -- measures.

2. In this connection I have also to bring to your kind notice, that Govt., in their order No. 5082-131 A & I 215-14 dated 5-1-17, have since, relieved this department from supplying weights & Measures and have also approved of the suggestion made by the Industries and Commerce Committee, to abandon the idea of erecting a plant in the jail for the purpose.

Ihave the honor to be,
Sir,
~~Your most obedient~~ servant,

Inspector General of Prisons